



# SERVICE LETTER

DATE: 18 APRIL 1980

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## ENGINE COMPRESSOR CLEANING— DAILY WATER RINSE AND PERIODIC WATER WASH

TO: All owners and operators of Hughes Helicopters

MODELS AFFECTED:

All 500 Models 369H Series Helicopters

REFERENCE:

500 Series— Basic HMI, Issued 1 October 1972; Revision No. 7, 15 December 1976 Hughes Service Information Notice No. HN - 107. 1, dated 23 January 1978

Detroit Diesel Allison Model 250-C18 Engine Operation and Maintenance Manual, Publication No. 5W2 .

Detroit Diesel Allison Model 250-C20 Engine Operation and Maintenance Manual, Publication NO. 10W2

The above referenced DDA Model 250-C18 and 250-C20 Engine Operation and Maintenance Manuals specify two different methods to be used for cleaning engine compressor components.

First, a daily water rinse is recommended for helicopters operating in a corrosive environment, to remove any contaminants and corrosive air particles from the compressor. This daily water rinse uses no soap or cleaning solvents, and is accomplished without disconnecting the compressor discharge pressure (Pc) sensing] tube. A five minute ground run is required to purge and evaporate any residual water after rinsing. It is to be noted that Hughes PN 369H92537 engine compressor water wash kit (installed as optional equipment per referenced Notice No. HN-107.1) is designed specifically for compressor rinsing with a clean water spray only.

For helicopters operating in smoggy areas, a periodic (200 to 300 hours) compressor water wash is also recommended. The periodic water wash uses cleaning solvents to remove dirt buildup in the compressor. The Pc tube must therefore be disconnected and the opening capped to prevent introduction of chemical agents into the controls system Pc connection during the wash operation.



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Whether rinsing with a clean water spray or washing with cleaning solvents, it is important that owners and operators adhere to the compressor cleaning procedures specified in the engine maintenance manual.

A handwritten signature in black ink that reads 'Edward Koch'. The signature is written in a cursive style with a large, prominent 'E' and 'K'.

Edward Koch, Manager,  
Customer Service Department  
Hughes Helicopters, Inc.  
Product Support Department